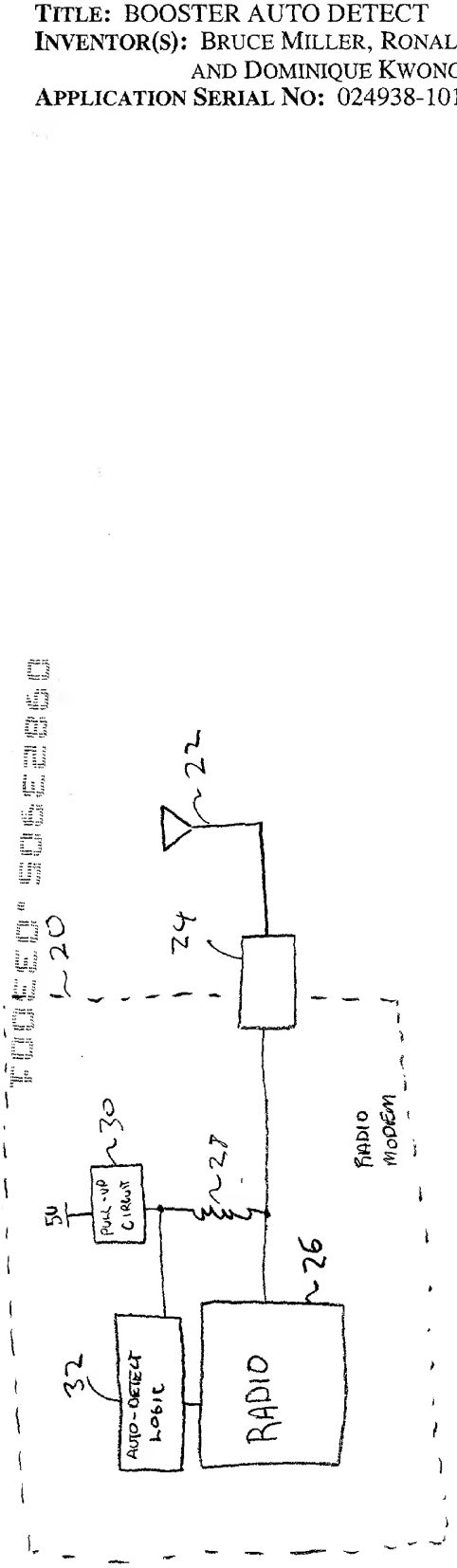

FIGURE 1

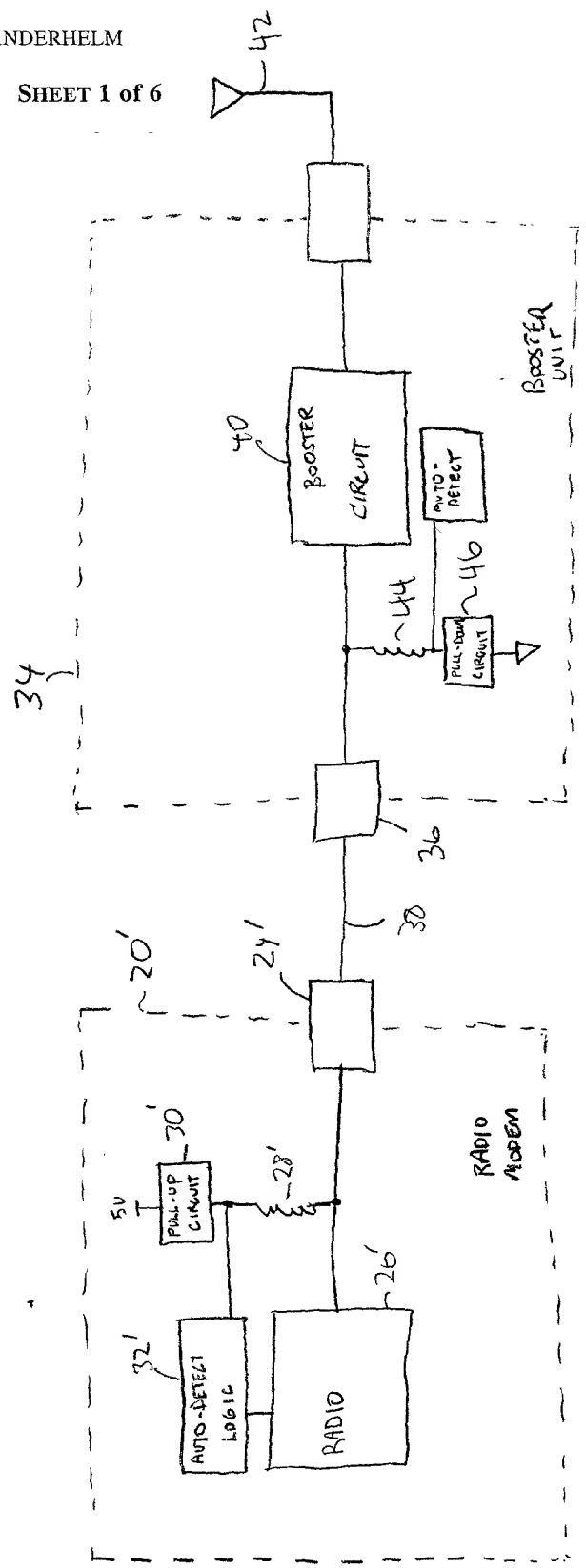

FIGURE 2

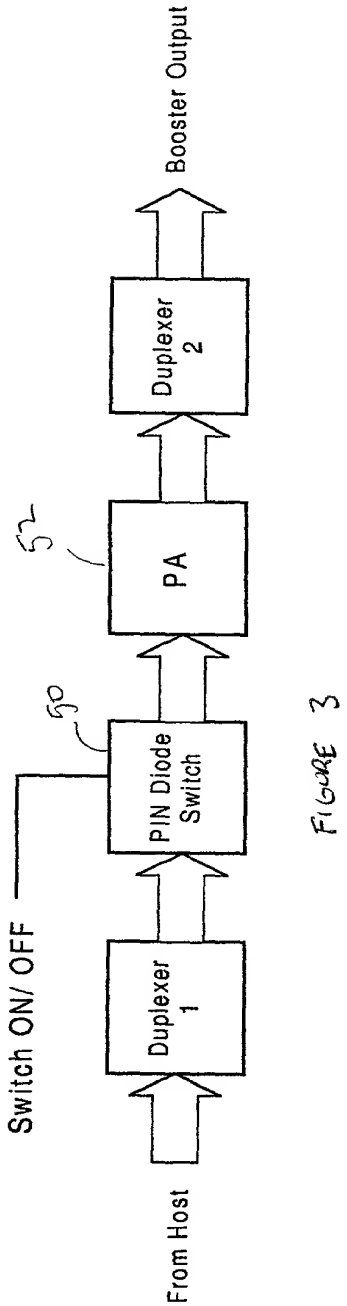

FIGURE 3

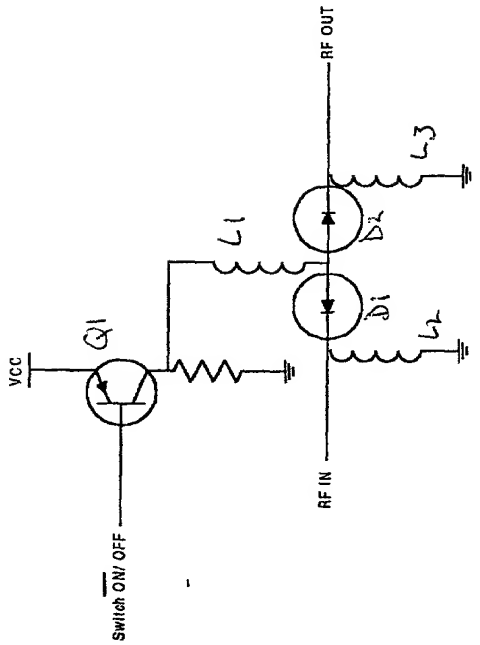

FIGURE 4

EXPRESS MAIL NO. EV065023960

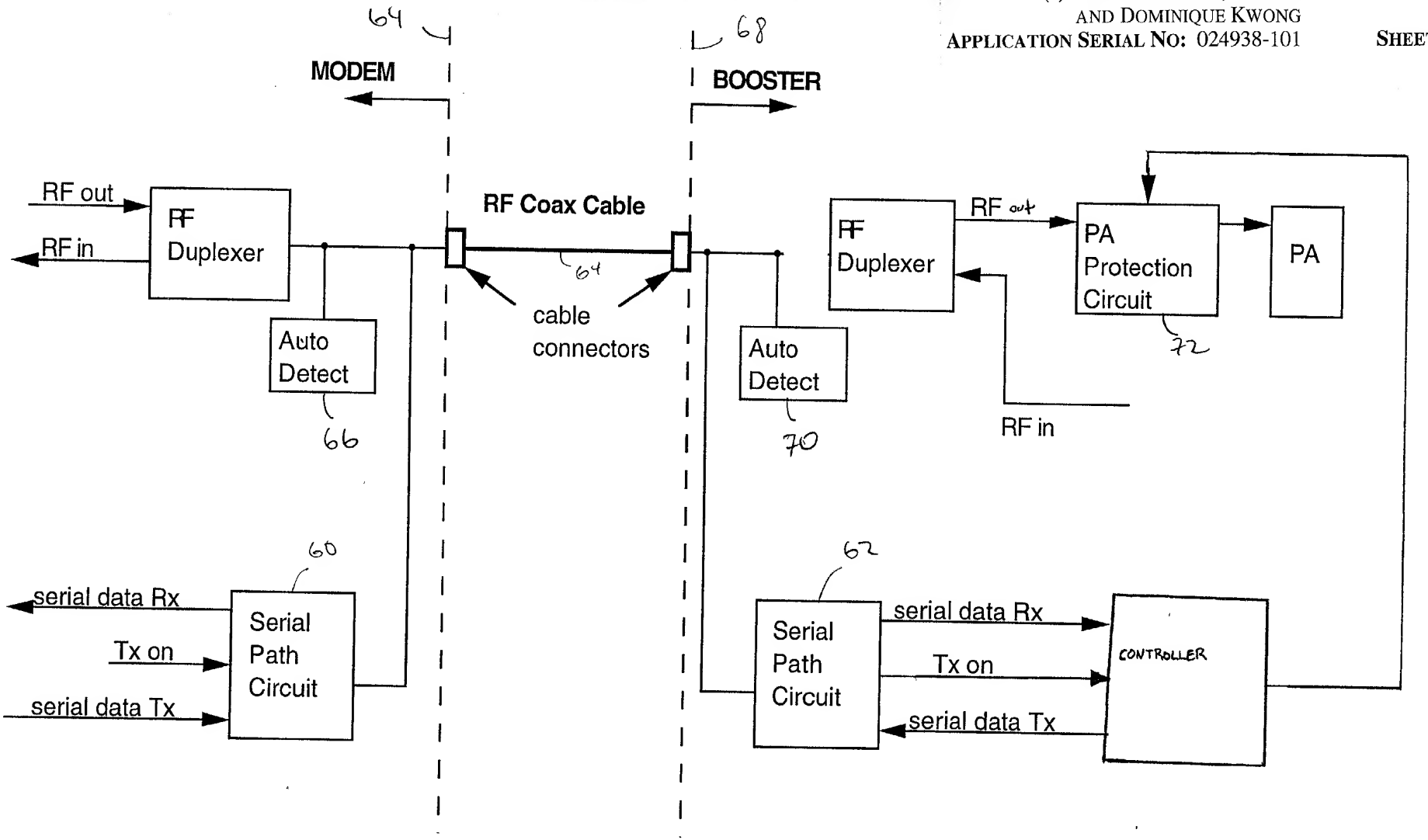

FIGURE 5

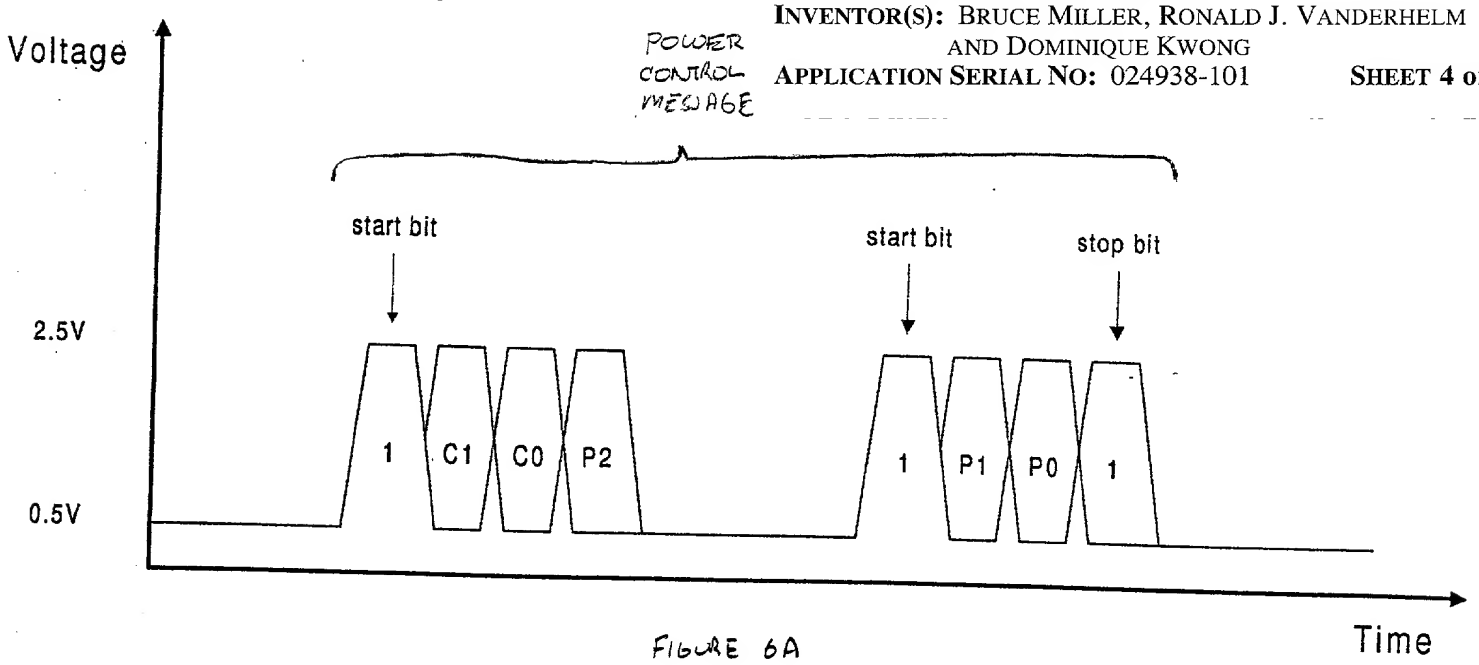

FIGURE 6A

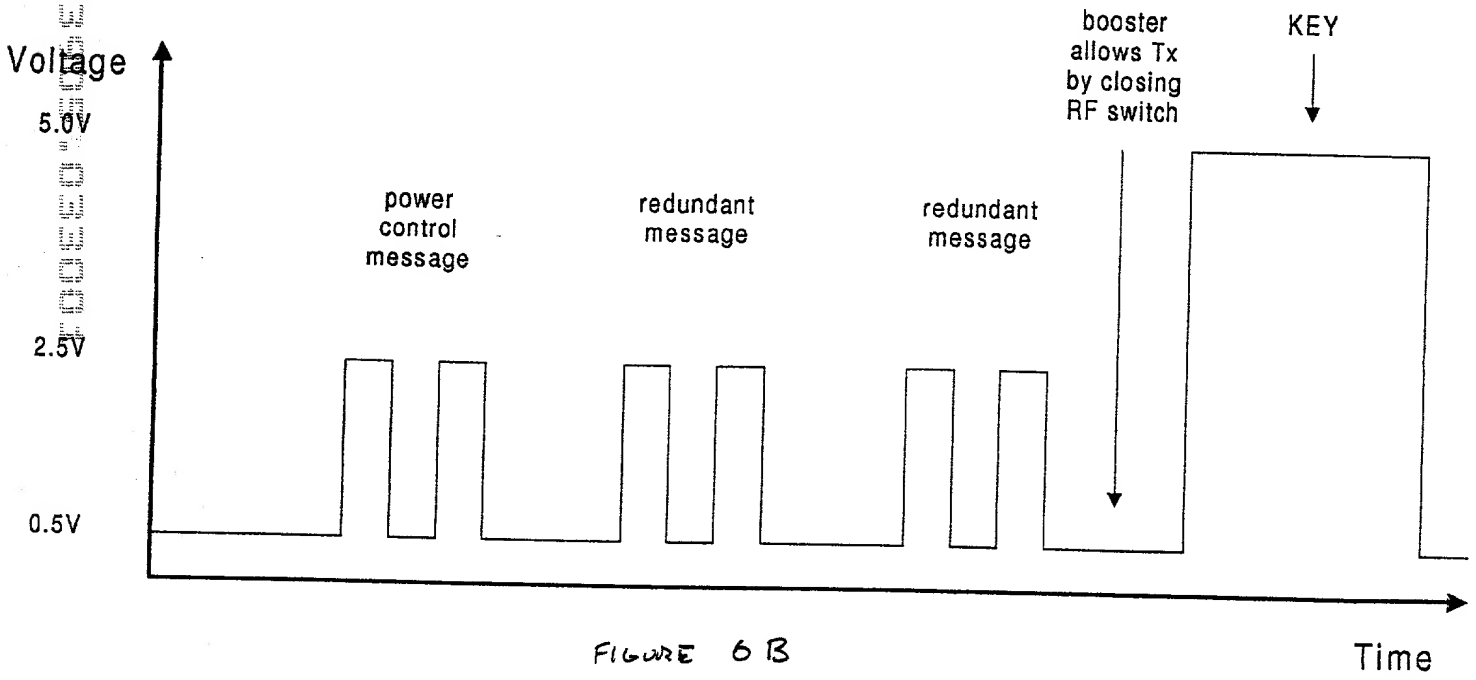

FIGURE 6B

C[1:0] denote channel band (low, mid, or high)
P[2:0] denote power level (0 through 7)

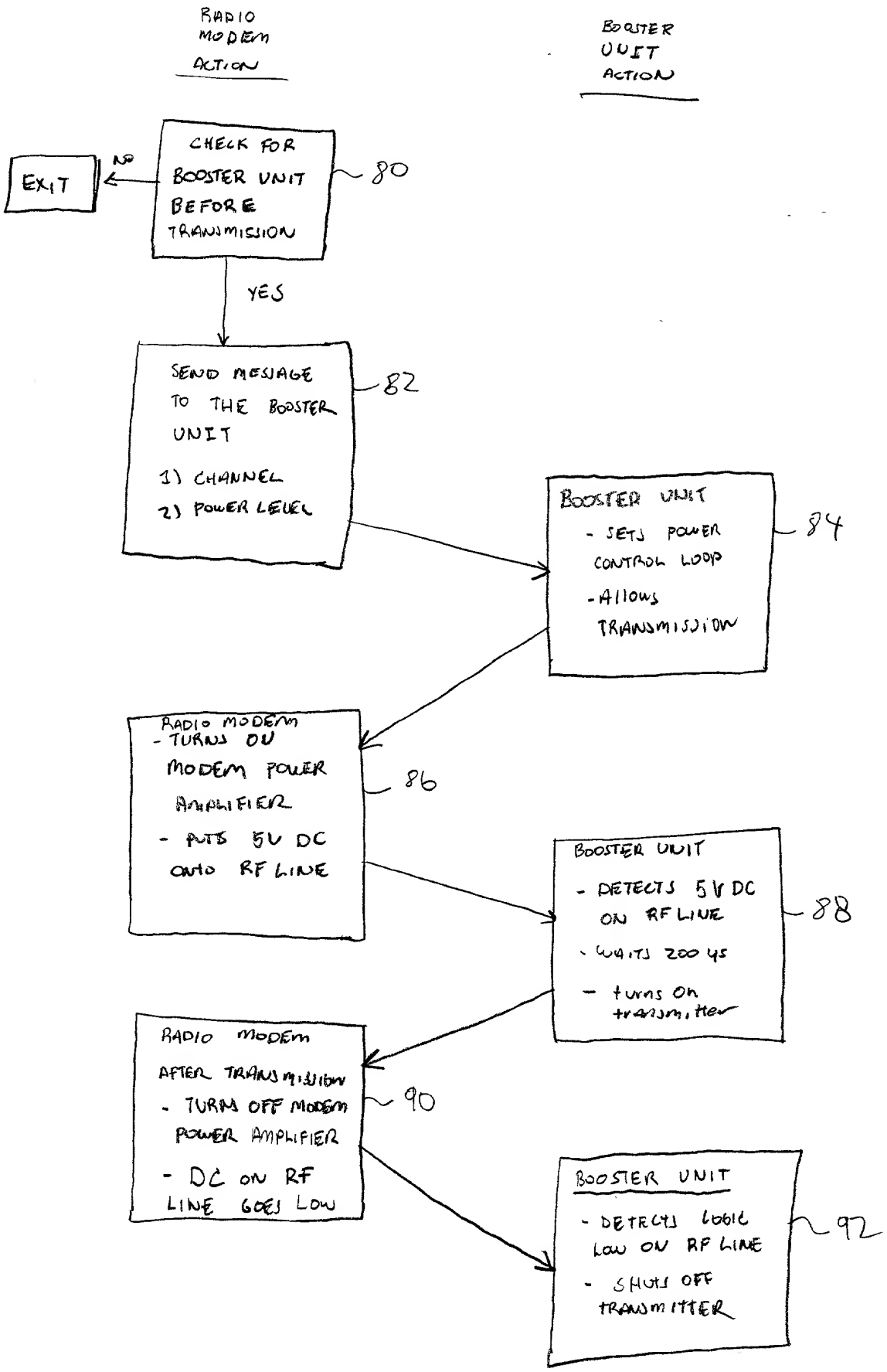
RADIO MODEM ACTION
BOOSTER UNIT ACTION
CHECK FOR BOOSTER UNIT BEFORE TRANSMISSION
80
NO
EXIT
YES
SEND MESSAGE TO THE BOOSTER UNIT
1) CHANNEL
2) POWER LEVEL
82
BOOSTER UNIT
- SETS POWER CONTROL LOOP
- ALLOWS TRANSMISSION
84
RADIO MODEM
- TURNS ON MODEM POWER AMPLIFIER
- PUTS 5V DC ONTO RF LINE
86
BOOSTER UNIT
- DETECTS 5V DC ON RF LINE
- WAITS 200 µs
- turns on transmitter
88
RADIO MODEM AFTER TRANSMISSION
- TURN OFF MODEM POWER AMPLIFIER
- DC ON RF LINE GOES LOW
90
BOOSTER UNIT
- DETECTS LOGIC LOW ON RF LINE
- SHUTS OFF TRANSMITTER
92

FIGURE 7

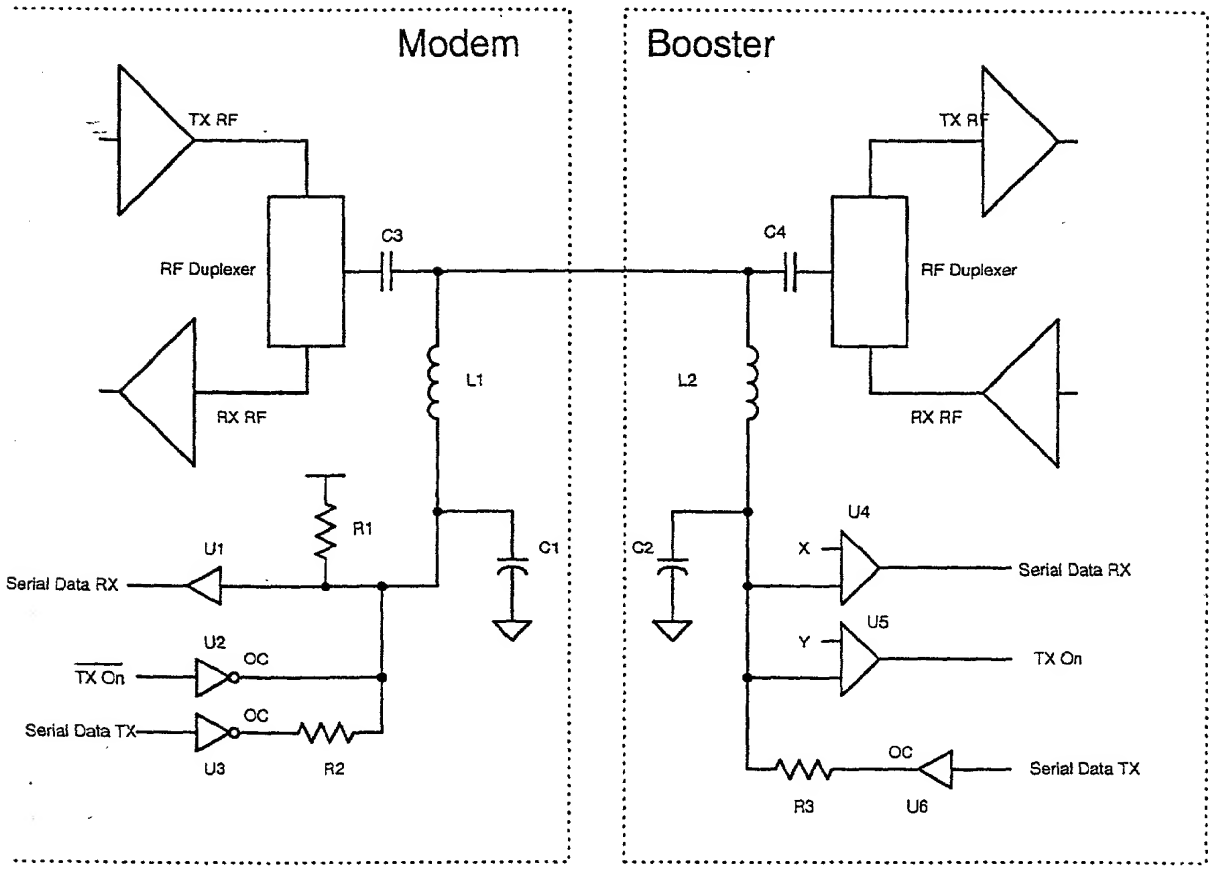
Modem
Booster
TX RF
RF Duplexer
C3
RX RF
L1
R1
U1
Serial Data RX
C1
U2
OC
TX On
Serial Data TX
OC
U3
R2
TX RF
C4
RF Duplexer
RX RF
L2
C2
U4
X
Serial Data RX
U5
Y
TX On
OC
Serial Data TX
R3
U6

FIGURE 8